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14

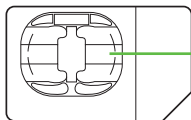
Appendix



About USIM Card

USIM Card is an IC card containing customer and authentication information, including the handset number. USIM Card must be inserted to use this handset. Save Phone Book entries on USIM Card Phone Book to use them on other SoftBank handsets. Depending on the USIM Card in use, some entry items may not be supported, and some limits (character entry, etc.) may be lower.

Precautions



IC Chip

- Do not insert USIM Card into any other IC card device. SoftBank Mobile is not liable for resulting damages.
- Keep the USIM Card IC chip clean; malfunction may result. Clean with soft dry cloth.
- Do not attach labels to USIM Card. Malfunction may result.

Important

- USIM Card is the property of SoftBank Mobile.
- USIM Card will be reissued for a fee if lost or damaged.
- Return USIM Card to SoftBank Mobile upon subscription termination.
- Returned USIM Cards are recycled.
- USIM Card specifications may change without prior notice.
- Back up USIM Card files. SoftBank Mobile is not liable for lost files.
- If your USIM Card or handset (with USIM Card inserted) is lost or stolen, suspend your service immediately. For details, contact SoftBank Mobile Customer Center, General Information (P.14-36).

USIM PIN

4-digit code (**9999** by default); activate PIN Entry to restrict usage.

PIN Lock

- Entering incorrect PIN three consecutive times activates PIN Lock, limiting handset use.

Canceling PIN Lock

- Contact SoftBank Mobile Customer Center, General Information (P.14-36) for your Personal Unblocking Key (PUK Code) and follow these steps:

Enter PUK Code ➡ ➡ **Enter new PIN** ➡ ➡ **Re-enter new PIN** ➡

- Write down PUK code.

PUK Lock

- Entering incorrect PUK Code ten consecutive times activates PUK Lock, disabling handset. Contact SoftBank Mobile Customer Center, General Information (P.14-36) for recovery.

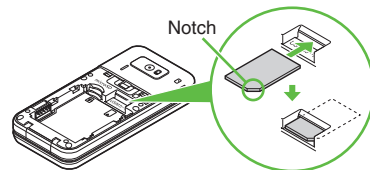


USIM Card Installation

- Do not apply excessive force to insert/remove USIM Card.
- USIM Card must be inserted to use this handset.

Inserting

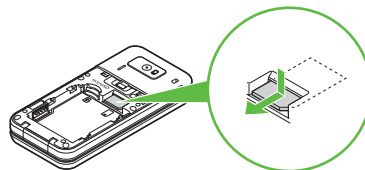
- 1 Remove battery (P.14-4)
- 2 Slide in USIM Card with IC chip facing down



- Reinstall battery (P.14-4).

Removing

- 1 Remove battery
- 2 Gently slide out USIM Card as shown



- Reinstall battery.
- Take care not to lose removed USIM Card.

After Repairs, USIM Card Replacement or Handset Upgrade/Replacement

- Some downloaded files may be inaccessible. In addition, S! Applications and BookSurfing® may be disabled after USIM Card replacement.



Battery Installation

About Battery

- Charge battery at least once every six months; an uncharged battery may become unusable or affect files/settings.
- Depending on usage, bulges may appear near end of battery life; this does not affect safety.
- Replace battery if operating time shortens noticeably.
- Clean device charging terminals with a dry cotton swab.

Lithium-ion Battery

- This product requires a lithium-ion battery. Lithium-ion batteries are a recyclable resource.

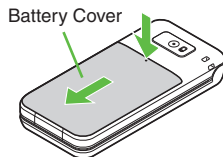


Li-ion00

- To recycle a used lithium-ion battery, take it to any shop displaying the symbol shown above.
- To avoid fire or electric shock, do not short-circuit or disassemble battery.

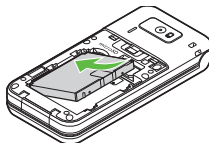
Inserting & Removing

1 Remove cover



- Press and slide cover then lift as shown.

2 Insert battery



- With logo side up, fit tabs into battery cavity slots.

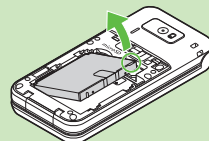
3 Close cover



- Position and slide the cover gently as shown until it stops.

Removing

- Turn handset power off and lift battery as shown.



- If battery sticks, pull Battery Tab and lift.



Software Update

Check for firmware updates and download as required.

Precautions

- Handset is disabled until update is complete. Update may take up to approximately 30 minutes.
- Update failure may disable handset. To reduce failure risk, make sure signal is strong and stable, and charge battery beforehand.
- Update will not start if other functions are in use. Before updating software (or before scheduled update time), end all active functions/applications.
- Disconnect USB Cable beforehand to reduce failure risk.
- Always back up important information. SoftBank Mobile cannot be held liable for damages from lost information, etc.

Updating Software

Packet transmission fees do not apply to updates (including checking, downloading and rewriting).

1  ➔ **Settings** ➔  ➔ **Software Update** ➔ 


2 **Software Update** ➔ 

- Follow onscreen instructions.

Update Result

In 2, **Update Result** ➔ 

Scheduled Update


A confirmation appears at scheduled update time. Press  or wait a while for update to start.

When Updated

Update success notification appears and handset reboots.

After reboot, completion message appears and Information window opens.

Update Result

While Information window appears, **Update Result** ➔ 



Reboot Failure

- If handset does not return to Standby after update, turn power off, reinsert battery, then restart it. If it still does not restart, contact SoftBank Mobile Customer Center, Customer Assistance (P.14-36).



Troubleshooting

General

Problem	Possible Cause	Solution
Handset won't turn on	Was  pressed long enough?	Press  longer.
	Battery may need to be charged or replaced.	Charge battery or install a charged battery.
	Battery may not be properly installed.	Install battery properly (P.14-4).
Handset won't respond	Is Switch On/Off in PIN Entry On ?	If On , PIN is required. Enter PIN according to onscreen prompt.
Insert USIM Card appears	USIM Card may not be properly inserted.	Turn power off and check that USIM Card is properly inserted, then restart handset. If the message still appears, USIM may be damaged.
	The correct USIM Card may not be inserted.	Make sure the correct USIM Card is inserted. The inserted USIM Card may not be valid.
	There may be debris on IC chip/terminals.	Clean relevant parts with dry cloth and re-insert.
REFRESH appears and handset returns to Standby	Handset may have been dropped or subjected to shocks.	Handset failed to recognize USIM Card temporarily. This is not a malfunction.
Keypad won't respond	Keypad Lock may be active.	Cancel Keypad Lock (P.1-17).
	Function Lock may be active.	Cancel Function Lock (P.10-2).

Problem	Possible Cause	Solution
Battery strength indicator flashes when not charging	Ambient temperature may be outside 5°C to 35°C.	Use within an ambient temperature of 5°C - 35°C.
Saved entry/folder does not appear on handset	Entry/folder may be set to Secret.	Activate Show Secret Data (P.10-3).
Cannot use Predictive	Show Secret Data may be active.	Cancel Show Secret Data.
Handset/AC Charger feels warm	Handset/AC Charger may warm while charging.	Unless handset/AC Charger is too hot to touch, warmth is considered normal. Always avoid prolonged skin contact to prevent burn injuries.
	Handset may warm during extended periods of use.	
	Handset may warm during Video Calls.	
Cannot access Memory Card files	Memory Card may not be properly formatted.	Use 840SH-formatted Memory Cards.
Clock settings are lost	Did you leave handset without battery?	Clock settings remain even when removing battery for replacement, etc. However, if handset is left with no battery or an exhausted one for an extended period of time (approximately one hour), Clock will need to be reset.



■ Charger/Battery

Problem	Possible Cause	Solution
Battery charges quickly	Remaining charge shortens charging time.	This is normal.
	Battery may be terminally exhausted or defective. (Small Light flashes red.)	Replace battery with a new one.
Battery charges slowly	Charging slows during Video Calls.	End the call to charge faster.
	Battery may be charging via USB.	Use AC Charger.
Battery won't charge	AC Charger may not be properly connected to handset.	Make sure connector is securely inserted and retry.
	AC Charger may not be firmly plugged in to AC outlet.	Remove plug from outlet, re-insert and retry.
	Battery may not be properly installed.	Install battery properly (P.14-4).
	Battery, AC Charger, or Charging Terminals, or Device Port may be obstructed by dust, etc.	Clean terminals, connector and Port with a dry cotton swab and retry.
	Charger, etc. may not be supported.	Use specified AC Charger, etc. only; others may damage battery.

Problem	Possible Cause	Solution
Battery Time seems shorter than usual	High power consuming operations are in use.	Keep handset closed in Standby; reduce S! Application, Media Player and camera use, and limit transmissions/external connections.
	Using handset in poor conditions may shorten Battery Time.	Avoid prolonged use of handset out-of-range or in poor signal conditions.
	Power hungry settings may be active.	Lower Brightness, select shorter Display Saving/ Backlight time, etc.



Key Assignments

Key	Kanji (Hiragana) [Double-byte]	Katakana [Double & Single-byte]	Alphanumerics [Double & Single-byte]	Numbers [Single-byte]	Character Codes
1	あいうえお あいうえお	アイウエオ アイウエオ	@./_-1 (space)	1	1
2	かきくけこ	カキクケコ	ABCabc2	2	2
3	さしすせそ	サシスセソ	DEFdef3	3	3
4	たちつとっ	タチツテトッ	GHIghi4	4	4
5	なにぬねの	ナニヌネノ	JKLjkl5	5	5
6	はひふへほ	ハヒフヘホ	MNOmno6	6	6
7	まみむめも	マミムメモ	PQRSpqrs7	7	7
8	やゆよゃゅょ	ヤユヨャュョ	TUVtuv8	8	8
9	らりるれろ	ラリルレロ	WXYZwxyz9	9	9
0	わをんー ・	ワヲンー ・	0	0	0
✕	Log, Pictogram List (double-byte), Symbol List ³				✕ + P (pause) ? - ²
#	、。 (line break) ? ! (space)		、。 (line break) ?! (space)	#	

¹ - is available only in single-byte katakana entry.

² Available for phone number entry; some characters may not be enterable in some windows.

³ May not be enterable in some windows.





Key	Kanji (Hiragana) [Double-byte]	Katakana [Double & Single-byte]	Alphanumerics [Double & Single-byte]	Numbers [Single-byte]	Character Codes
	Conversion (up) ⁴	Cursor up			
	Conversion (down) ⁵	Cursor down ⏴ (line break)			
	Cursor left				
	Cursor right				
	Switch entry modes (except during conversion)				
	Toggle Personal Mode ⁶	_____	Toggle Personal Mode ^{6, 7}	_____	
	Toggle case (for some characters)			_____	
	_____	Toggle mode (upper/ lower and lower case)			
	Delete one character				
	Cancel conversion	_____	Cancel conversion ⁷	_____	Delete code
 (Long)	Delete before or after cursor				
	Recover characters deleted with				
	Re-convert ⁸	_____	Re-convert ^{7, 8}	_____	
	OK				
	Phonetic Conversion ⁶	_____			
	Hiragana to Katakana/ Alphanumeric Conversion ⁶	_____			

⁴Cursor moves up except during conversion.⁵Cursor moves down except during conversion.⁶Available during conversion.⁷Available only in single-byte alphanumeric entry.⁸Press immediately after inserting characters to re-convert them.



Pager Code List

Gray background indicates upper and lower case available. Press  to switch immediately after character entry.

■ Double-byte Upper Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	あ	い	う	え	お	A	B	C	D	E
	2	か	き	く	け	こ	F	G	H	I	J
	3	さ	し	す	せ	そ	K	L	M	N	O
	4	た	ち	つ	て	と	P	Q	R	S	T
	5	な	に	ぬ	ね	の	U	V	W	X	Y
	6	は	ひ	ふ	へ	ほ	Z	?	!	-	/
	7	ま	み	む	め	も	¥	&			*1
	8	や	(ゆ)	よ	*	#	Space		*2
	9	ら	り	る	れ	ろ	1	2	3	4	5
	0	わ	を	ん	ゝ	ゞ	6	7	8	9	0

■ Single-byte Upper Case



		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	ア	イ	ウ	エ	オ	A	B	C	D	E
	2	カ	キ	ク	ケ	コ	F	G	H	I	J
	3	サ	シ	ス	セ	ソ	K	L	M	N	O
	4	タ	チ	ツ	テ	ト	P	Q	R	S	T
	5	ナ	ニ	ヌ	ネ	ノ	U	V	W	X	Y
	6	ハ	ヒ	フ	ヘ	ホ	Z	?	!	-	/
	7	マ	ミ	ム	メ	モ	¥	&			*1
	8	ヤ	(ユ)	ヨ	*	#	Space		*2
	9	ラ	リ	ル	レ	ロ	1	2	3	4	5
	0	ワ	ヲ	ン	ゝ	ゞ	6	7	8	9	0


■ Double-byte Lower Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	あ	い	う	え	お	a	b	c	d	e
	2						f	g	h	i	j
	3						k	l	m	n	o
	4			つ			p	q	r	s	t
	5						u	v	w	x	y
	6						z				
	7										*1
	8	や		ゆ		よ					*2
	9										
	0				ゝ	ゞ					

■ Single-byte Lower Case

		Second Digit (Press Next)									
		1	2	3	4	5	6	7	8	9	0
First Digit (Press First)	1	ア	イ	ウ	エ	オ	a	b	c	d	e
	2						f	g	h	i	j
	3						k	l	m	n	o
	4			ツ			p	q	r	s	t
	5						u	v	w	x	y
	6						z				
	7										*1
	8	ヤ		ユ		ヨ					*2
	9										
	0				ゝ	ゞ					

*1 Press  to insert  (line break) in mail message text, Notepad, etc.

*2 Press  to toggle upper and lower case modes.



[illegible]

First Three Digits	Last Digit									First Three Digits	Last Digit									First Three Digits	Last Digit																			
	0	1	2	3	4	5	6	7	8		9	0	1	2	3	4	5	6	7		8	9	0	1	2	3	4	5	6	7	8	9								
198	叶	栳	栳	栳	栳	栳	栳	栳	栳	230	掘	窟	杏	靴	杏	靴	杏	靴	杏	靴	261	さ									294	夙	淑	祝	縮	肅	塾	熟	術	
199	嚙	鴨	栳	栳	栳	栳	栳	栳	栳	231	栗	綵	桑	鍛	煎	煎	煎	煎	煎	煎	262	佐	又	唆	嵯	差	查	沙	些	295	述	俊	峻	祝	縮	肅	塾	熟	術	
200	粥	刈	刈	刈	刈	刈	刈	刈	刈	232	郡	け									263	鎖	錯	塞	左	差	查	沙	些	296	旬	順	淳	祝	縮	肅	塾	熟	術	
201	勸	勸	患	患	患	患	患	患	患	233	卦	契	契	契	契	契	契	契	契	契	264	詐	錯	塞	左	差	查	沙	些	297	醇	順	淳	祝	縮	肅	塾	熟	術	
202	幹	患	汗	漢	漢	漢	漢	漢	漢	234	珪	型	契	契	契	契	契	契	契	契	265	災	載	採	採	左	差	查	沙	些	298	署	書	著	祝	縮	肅	塾	熟	術
203	款	飲	汗	漢	漢	漢	漢	漢	漢	235	携	景	景	景	景	景	景	景	景	景	266	載	災	災	左	差	查	沙	些	299	恕	鋤	除	傷	傷	傷	傷	傷	傷	
204	竿	管	箇	鑑	鑑	鑑	鑑	鑑	鑑	236	鷄	芸	迎	鯨	劇	擊	擊	擊	擊	擊	267	察	採	採	左	差	查	沙	些	300	娉	甥	匠	召	商	唱	唱	唱	唱	
205	諱	貫	還	鑑	鑑	鑑	鑑	鑑	鑑	237	傑	欠	欠	欠	欠	欠	欠	欠	欠	欠	268	咋	咋	咋	左	差	查	沙	些	301	妾	承	招	抄	少	尚	尚	尚	尚	
206	館	丸	含	岸	岸	岸	岸	岸	岸	238	俟	倦	倦	倦	倦	倦	倦	倦	倦	倦	269	蚌	蚌	蚌	左	差	查	沙	些	302	彰	承	招	抄	少	尚	尚	尚	尚	
207	騰	雁	頑	頑	頑	頑	頑	頑	頑	239	建	憲	拳	拳	拳	拳	拳	拳	拳	拳	270	鏑	鏑	鏑	左	差	查	沙	些	303	松	梢	樟	招	抄	少	尚	尚	尚	
207	き									238	俟	倦	倦	倦	倦	倦	倦	倦	倦	倦	270	鏑	鏑	鏑	左	差	查	沙	些	303	松	梢	樟	招	抄	少	尚	尚	尚	
208	基	奇	嬌	岐	希	幾	幾	幾	幾	240	肩	見	見	見	見	見	見	見	見	見	271	鏑	鏑	鏑	左	差	查	沙	些	304	紹	肖	蔞	蔞	蔞	蔞	蔞	蔞	蔞	
209	旗	機	殺	氣	汽	織	祈	稀	稀	241	肩	見	見	見	見	見	見	見	見	見	272	慘	撤	散	左	差	查	沙	些	306	詳	象	賞	賞	賞	賞	賞	賞	賞	
210	紀	微	規	紀	貴	起	軌	軌	軌	242	絃	元	原	原	原	原	原	原	原	原	273	讀	贊	酸	餐	暫	暫	暫	暫	307	情	援	案	案	案	案	案	案	案	
211	紀	微	規	紀	貴	起	軌	軌	軌	243	絃	元	原	原	原	原	原	原	原	原	273	讀	贊	酸	餐	暫	暫	暫	暫	308	情	援	案	案	案	案	案	案	案	
212	懷	龜	偽	儀	儀	宜	戲	技	擬	243	——	——	——	——	——	——	——	——	——	274	使	司	司	司	司	司	司	司	309	釀	錠	嘔	地	飾	飾	飾	飾	飾		
213	懷	疑	祗	蟻	蟻	誼	誼	誼	誼	244	姑	孤	庫	孤	故	枯	呼	固	固	固	275	子	屍	市	師	士	始	始	始	310	蝕	辱	殖	殖	殖	殖	殖	殖	殖	
214	吉	吃	喫	橘	橘	詰	詰	詰	詰	245	姑	孤	庫	孤	故	枯	呼	固	固	固	276	施	旨	枝	脂	視	詞	詩	詩	311	心	慎	振	新	新	新	新	新	新	
215	客	脚	急	逆	久	休	休	休	休	246	糊	股	互	午	午	午	午	午	午	午	277	紙	資	紫	慈	持	時	時	時	312	身	真	辛	辛	辛	辛	辛	辛	辛	
216	宮	窮	笈	級	糾	給	給	給	給	247	御	悟	梧	梧	梧	梧	梧	梧	梧	梧	278	字	次	滋	滋	時	時	時	時	313	瘡	真	辛	辛	辛	辛	辛	辛	辛	
217	究	窮	笈	級	糾	給	給	給	給	248	乞	離	交	侯	侯	侯	侯	侯	侯	侯	279	耳	次	滋	滋	時	時	時	時	314	尋	甚	甚	甚	甚	甚	甚	甚	甚	
218	巨	拒	拋	掌	渠	虛	許	許	許	249	効	厚	厚	厚	厚	厚	厚	厚	厚	厚	280	耳	自	自	自	自	自	自	自	315	——	——	——	——	——	——	——	——	——	
219	禦	供	侯	侯	侯	侯	侯	侯	侯	250	効	厚	厚	厚	厚	厚	厚	厚	厚	厚	281	軸	耳	自	自	自	自	自	自	315	——	——	——	——	——	——	——	——	——	
220	供	侯	侯	侯	侯	侯	侯	侯	侯	251	巧	巷	幸	幸	幸	幸	幸	幸	幸	幸	282	軸	耳	自	自	自	自	自	自	316	須	醉	厨	翠	吹	垂	推	水	水	
221	脚	叫	喬	峽	強	強	強	強	強	252	拘	江	洪	昂	見	更	更	更	更	更	283	屢	漆	疾	質	實	實	實	實	317	炊	睡	厨	翠	吹	垂	推	水	水	
222	脚	叫	喬	峽	強	強	強	強	強	253	拘	江	洪	昂	見	更	更	更	更	更	284	屢	漆	疾	質	實	實	實	實	318	瑞	髓	崇	崇	崇	崇	崇	崇	崇	
223	蕎	教	橋	響	響	響	響	響	響	254	紅	紘	紋	網	耕	考	肱	腔	腔	腔	285	尺	杓	灼	灼	灼	灼	灼	灼	319	相	髓	崇	崇	崇	崇	崇	崇	崇	
224	業	局	曲	極	玉	桐	杆	杆	杆	255	航	荒	街	街	街	街	街	街	街	街	286	惹	紗	紗	紗	紗	紗	紗	紗	320	澄	澄	澄	澄	澄	澄	澄	澄	澄	
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229	——									261	昏	昆	根	根	根	根	根	根	根	根	293	從	戎	戎	戎	戎	戎	戎	戎	325	籍	績	績	績	績	績	績	績	績	

14-13




















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565	愆	惶	愆	愆	愆	愆	愆	愆	愆	601	栳	栳	栳	栳	栳	栳	栳	栳	栳	栳	637	炮	烟	烟	烟	烟	烟	烟	烟	烟	烟
566	愆	惶	愆	愆	愆	愆	愆	愆	愆	602	栳	栳	栳	栳	栳	栳	栳	栳	栳	栳	638	炮	烟	烟	烟	烟	烟	烟	烟	烟	烟
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First Three Digits	Last Digit									First Three Digits	Last Digit									First Three Digits	Last Digit										
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707	聿	聿	聿	聿	聿	聿	聿	聿	聿	779	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨	815	馮	馮	馮	馮	馮	馮	馮	馮	馮	馮
708	聿	聿	聿	聿	聿	聿	聿	聿	聿	780	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨	816	馮	馮	馮	馮	馮	馮	馮	馮	馮	馮
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718	聿	聿	聿	聿	聿	聿	聿	聿	聿	790	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨	826	馮	馮	馮	馮	馮	馮	馮	馮	馮	馮
719	聿	聿	聿	聿	聿	聿	聿	聿	聿	791	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨	827	馮	馮	馮	馮	馮	馮	馮	馮	馮	馮
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721	聿	聿	聿	聿	聿	聿	聿	聿	聿	793	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨	829	馮	馮	馮	馮	馮	馮	馮	馮	馮	馮
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735	聿	聿	聿	聿	聿	聿	聿	聿	聿	807	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
736	聿	聿	聿	聿	聿	聿	聿	聿	聿	808	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
737	聿	聿	聿	聿	聿	聿	聿	聿	聿	809	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
738	聿	聿	聿	聿	聿	聿	聿	聿	聿	810	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
739	聿	聿	聿	聿	聿	聿	聿	聿	聿	811	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
740	聿	聿	聿	聿	聿	聿	聿	聿	聿	812	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											
741	聿	聿	聿	聿	聿	聿	聿	聿	聿	813	迨	迨	迨	迨	迨	迨	迨	迨	迨	迨											

Weather Indicator List





Basic Status

	Clear skies (day)
	Clear skies (night)
	Cloudy
	Rain
	Snow
	Thunder showers
	Chance of rain: 0%
	Chance of rain: 10%
	Chance of rain: 20%
	Chance of rain: 30%
	Chance of rain: 40%
	Chance of rain: 50%
	Chance of rain: 60%
	Chance of rain: 70%
	Chance of rain: 80%
	Chance of rain: 90%
	Chance of rain: 100%
	Then
	Partly/chance of





Pollen Count

	Low
	Moderate
	High
	Extreme





Cherry Blossom

	Flowering
	Almost full bloom
	Full bloom
	Beginning of petal fall




Fall Foliage

	No color change
	Colors appearing
	Peak
	Defoliating




Ultraviolet

	Low
	Moderate
	High
	Extreme

Typhoon

	Forming
	Approaching
	Caution necessary

Other

	Heavy rain
	Gale
	Notification



Specifications

SoftBank 840SH

Weight*	99 g
Continuous Talk Time*	250 minutes
Continuous Standby Time*	340 hours (handset closed)
Charging Time (power off)	AC Charger: 140 minutes In-Car Charger: 140 minutes
Dimensions (W x H x D)*	49.6 x 105 x 15.9 mm (handset closed, without protruding parts)
Maximum Output	0.25 W

*Approximate value.

- Above values calculated with battery installed.
- Continuous Talk Time is an average measured with a new, fully charged battery, in strong signal conditions without moving handset.
- Continuous Standby Time is an average measured with a new, fully charged battery, with handset closed without calls or operations, in strong signal conditions without moving handset.
- Talk Time/Standby Time may vary with environment, status, settings, etc.
- Display employs precision technology, however, some pixels may appear brighter/darker.

Handset Materials

Parts	Materials & Finishing
Housing (Display back, Keypad side, Keypad back), Battery Cover	ABS resin/UV painting
Display window, lens cover	Acrylic resin
Infrared Port	ABS resin
External Display window	Acrylic resin/ In-mold decorating
Center Key, Multi Selector	PC resin, solid printing (back)
Mail Key, Yahoo! Keitai Key, Data Folder & A/a Key, Camera & Text Key, Start Key, Clear/Back Key, Power On/Off Key, Keypad, Calendar Key, Bookmarks & Manner Key, Side Key	PC resin/UV painting
Portrait/Macro Selector	POM
External Device Port Cover	PC resin/ Elastomer/UV painting
Battery terminals	Brass/Gold plating (sealer: nickel)
Screws (Display side, Keypad side, battery side)	SWCH16A/ Trivalent chromate

Accessory

Battery

Voltage	3.7V
Battery Type	Lithium-ion
Capacity	780 mAh
Dimensions (W x H x D)*	37.7 x 44.4 x 4.6 mm (without protruding parts)

*Approximate value.



Universal Operations, Etc.

■ Text Entry

User Dictionary	250 entries (5 per reading) Word: 30 characters Reading: 8 hiragana
Acquire Dictionary	5 dictionaries
Paste List	1 text string
Recoverable Deleted Characters	30,720 single-byte characters

■ Phone Book

Entry	1,000 entries
Name/Reading	Last/First: 32 characters each
Phone Number	5 numbers (32 digits each)
Mail Address	5 addresses (128 characters each)
Category	16 Categories
Address	Postal Code: 20 characters Country: 32 characters Others: 64 characters each
Office	Office Name/Division/Post: 32 characters each
Homepage	1,024 bytes
Note	256 characters
Mail Groups	20 Groups (20 members each) Group name: 16 characters

Calling

Dialed Numbers	Dialed Numbers: 30 records Dialed Ranking: 10 records
Received Calls	30 records
Answer Phone/ Caller Voice	20 messages or 90 seconds
Auto Answer List	10 numbers
Speed Dial/Mail	100 numbers/addresses

Messaging

Memory	Received Msg.	10 MB or 3,000 messages
	Drafts	5 MB (or 1,000 messages between Drafts, Sent Messages and Unsent Messages)
	Sent Messages	
	Unsent Messages	
	Templates	100 MB (shared with Data Folder and S! Appli Library)
S! Mail Subject	512 single-byte characters	
S! Mail Message	Approximately 30,000 single-byte characters	
SMS Message	160 single-byte alphanumerics	
Auto Resend	2 times	
Attachment	20 files or 300 KB [*]	
Send Reservation	10 messages	
Signature	256 single-byte characters	
Recipient	20 numbers/addresses	
Folder	20 folders (20 sort keys each)	
Graphic Mail	1 sound or Flash [®] file, or 40 images/ My Pictograms (with 1 sound or Flash [®] file)	
Auto Reply	20 numbers/addresses Reply Message: 256 single-byte characters per mode	
Anti Spam Measures	Individual	20 entries
	Permitted List	20 entries

^{*}Limit may be lower depending on message text, etc.

Internet

Download	Yahoo! Keitai	300 KB per page
	PC Site Browser	500 KB per file
History	300 pages	
URL Entry Log	10 URLs	
Bookmarks[*] & Saved Pages	100 pages	
Tab	3 tabs at one time	
Input Memory	20 entries	
Streaming History	20 URLs	

^{*}Folders are counted as pages.



Camera & Imaging

■ Mobile Camera

Effective Pixels	2.0 Megapixels
Auto Shut-off Time	Approximately 3 minutes

■ Photo Camera

Zoom	1x - 19.8x	
Picture Size (W x H dots)	2M	1200 x 1600
	Wide	900 x 1600
	1.2M	960 x 1280
	VGA	480 x 640
	Wallpaper	240 x 400
	QVGA	240 x 320
	QQVGA	120 x 160
File Format	JPEG	
Memory	Approximately 405 files (at 2M, Normal Quality) on handset with no other files	
File Name	yymmdd_hhmmss	
Shooting Distance	Macro: 10 cm	
Other	Use transparent PNG files of 40 KB or less as Frames	

■ Video Camera

Zoom	1x - 9.3x	
Record Size (W x H dots)	Extended Video	320 x 240 (QVGA)
		240 x 176 (HQVGA)
		176 x 144 (QCIF)
	For Message	128 x 96 (SubQCIF)
File Format	3GP	
Recording Capacity per Shot	Extended Video	Approximately 30 minutes* on Memory Card
	For Message	295 KB
File Name	yymmdd_hhmmss	
Recording Distance	1.5 m in good light	
Recording Pause Supported	QVGA, HQVGA (Extended Video sizes only)	

*Varies with handset usage, location or settings.

■ Editing Images

Picture Editor	Resize (W x H dots)	Wallpaper (240 x 400) Power On/Off (240 x 400) Incoming Call (160 x 160) Alarm (240 x 104) Add Art (96 x 96) QVGA (240 x 320) Cut
	Retouch	52 x 52 dots or larger JPEG/PNG images
	Paste	16 characters
	Correction	52 x 52 dots or larger JPEG/PNG images
Composite	Merge Panorama	JPEG images between W 48 x H 64 dots and 240 x 320 dots

Media Player

Supported Formats	AAC (.mp4/.3gp/.m4a) (Some files may not play depending on sampling frequency and bit rate)	
All Music List	Music	Shows up to 350 files each
	Chaku-Uta®	

S! Applications

Memory	100 items or 100 MB (shared with Templates folder and other folders in Data Folder)
--------	---

Handy Extras

Calendar*/Tasks	300 entries, Subject: 32 characters Description: 128 characters Location: 16 characters Set Holiday: 10 holidays	
Alarms	5 entries, Subject: 9 characters	
Calculator	999,999,999,999	
Stopwatch	23 hours 59 minutes 59.9 seconds in 0.1-second increments Lap time: 4 records	
Countdown Timer	99 minutes 59 seconds in 1-second increments	
Notepad	500 entries (8,192 characters each)	
Voice Recorder	For Message	3 minutes per file
	Extended Voice	99 hours 59 minutes 59 seconds
Scan Barcode (Continuous Mode)	UPC/JAN	50 codes
	QR Code	16 codes

*Preset holidays are based on Japanese calendar as of January 2010.



Entertainment

■ S! Quick News

Savable Items	1 item for Special
	5 items between News Flash and General

■ e-Books

Text Copy	20 characters
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Data Folder

Memory	100 MB (shared with Templates folder and S! Appli Library)
--------	--

Memory Card

Backup File Name	yymmddXX" (XX: 2 digits/letters)
------------------	----------------------------------

yymmdd for Contents Keys.

Connectivity & File Backup

■ Infrared

Infrared Transfer	IrMC 1.1	
	Range	Within 20 cm

■ S! Addressbook Back-up

Log	10 Backup/Restore/synchronization records
-----	---

Reference URLs

■ SOFTBANK MOBILE Corp.

<http://mb.softbank.jp/en/>

■ S! Addressbook Back-up

http://mb.softbank.jp/en/price_plans/basic_option.html

■ Messaging Basics

http://mb.softbank.jp/en/customer_support/mail.html

■ Custom Handset Address

<https://www.email.softbank.ne.jp/help/e/address.html>

■ Yahoo! Keitai

http://mb.softbank.jp/en/customer_support/web.html

■ Secure Remote Lock

http://mb.softbank.jp/en/price_plans/basic_option.html

■ microSD Memory Card Compatibility

From PC (Japanese)

http://k-tai.sharp.co.jp/peripherals/sd_support.html

From Handset (Japanese)

<http://shweb.sharp.co.jp/>

■ SVG-T

From Handset (Japanese)

http://shweb.sharp.co.jp/svg/index_pdc.html



Memory Card Structure & Contents

Memory Card Structure				Contents (Location when Viewed on Handset)
DCIM	XXXSHARP			Still images in DCIM
PRIVATE	MYFOLDER	Mail		Messaging folder backups (Received Msg., Sent Messages and Drafts)
		My Items	Book	e-Book files in Data Folder (Books)
			Bookmarks	Yahoo! Keitai Bookmarks
			Flash(R)	Flash® Wallpaper files in Data Folder (Flash®)
			Flash(R) Ringtones	Flash® ringtones in Data Folder (Flash® Ringtones)
			Games and More	S! Applications
			Mail Art	Files in Data Folder (Mail Art)
			Message Templates	Graphic Mail templates in Templates folder
			Music	Music files in Data Folder (Music)
			Other Documents	Other files in Data Folder (Other Documents)
			Pictograms	GIF files in Data Folder (My Pictograms)
			Pictures	Still images in Data Folder (Pictures)
			Sounds & Ringtones	Melodies and other sound files in Data Folder (Ring Songs-Tones)
			Videos	Video files in Data Folder (Videos)
		SH_Folder		Application management files
		Utility		Backup files (Phone Book), etc.
	SHARP	MOBILE		Backup files (User Dictionary), etc.



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PC Site Browser

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Settings

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■ Photo Camera

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Warranty & Service

■ Warranty

Warranty is provided when you purchase handset.

- Check the name of distributor and date of purchase.
- Read contents and keep in a safe place.
- The warranty term is described in the warranty.

■ After-Sales Services

See **P.14-6** "Troubleshooting" before contacting SoftBank Mobile for service or repairs.

If you cannot find solutions or solve problems, contact SoftBank Mobile Customer Center, Customer Assistance (**P.14-36**) in your subscription area and provide a detailed description of the problem.

- Repairs within warranty are performed under terms and conditions described.
- Out of warranty, possible repairs are performed upon request at subscriber expense.

For other services, contact the distributor, the nearest SoftBank Shop or SoftBank Mobile Customer Center, General Information (**P.14-36**).

Replacement parts are available for 6 years after termination of production.

- SoftBank Mobile is not liable for any damages resulting from use of this product.
- SoftBank Mobile is not liable for any damages resulting from accidental loss/alteration of handset data. Keep a copy of Phone Book entries, etc. in a separate place.
- Disassembling or modifying handset may violate the Radio Law. Modified handset will not be repaired.



Customer Service

For SoftBank handset or service information, call General Information. For repairs, call Customer Assistance.

SoftBank Mobile Customer Center

From a SoftBank handset, dial toll free at **157**
for General Information or **113** for Customer Assistance

SoftBank Mobile Global Call Center

From outside Japan, dial **+81-3-5351-3491**
(International charges apply.)

Call these numbers toll free from landlines.

Subscription Area	Service Center	Phone Number
Hokkaido, Aomori, Akita, Iwate, Yamagata, Miyagi, Fukushima, Niigata, Tokyo, Kanagawa, Chiba, Saitama, Ibaraki, Tochigi, Gunma, Yamanashi, Nagano, Toyama, Ishikawa, Fukui	General Information	☎0088-240-157
	Customer Assistance	☎0088-240-113
Aichi, Gifu, Mie, Shizuoka	General Information	☎0088-241-157
	Customer Assistance	☎0088-241-113
Osaka, Hyogo, Kyoto, Nara, Shiga, Wakayama	General Information	☎0088-242-157
	Customer Assistance	☎0088-242-113
Hiroshima, Okayama, Yamaguchi, Tottori, Shimane, Tokushima, Kagawa, Ehime, Kochi, Fukuoka, Saga, Nagasaki, Oita, Kumamoto, Miyazaki, Kagoshima, Okinawa	General Information	☎0088-250-157
	Customer Assistance	☎0088-250-113

